

# Subhankar Mandal

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GitHub: <https://github.com/o6Neel>

Portfolio: <https://o6neel.in>

## SKILLS

- **Languages:** Python, C, SQL
- **Frameworks:** Hugging Face, NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, OpenCV, Tkinter
- **Tools/Platforms:** Jupyter Notebook, Google Colab, Anaconda, VS code, Kaggle, Oracle RDBMS, MySQL, Streamlit, Power BI, Tableau, GitHub, AWS
- **Soft Skills:** Problem-Solving, Teamwork, Adaptability, Leadership, Time Management, Communication Skills

## PUBLICATIONS

- **Bias Correction in NWP Temperature Forecasts using LSTM-Based Deep Learning Models:** 18-19 Sep 2025
  - S. Mandal, et al., – 2025 12th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO), IEEE, Noida NCR, India, 2025. DOI: 10.1109/ICRITO66076.2025.11241393
- **AI and ML Approaches for Automated Mosquito Species Identification: A Review:** 19-20 Feb 2026
  - S. Mandal, P. Singh, “AI and ML Approaches for Automated Mosquito Species Identification: A Review,” 5th International Conference on Innovative Practices in Technology and Management (ICIPTM), Noida NCR, India, 2026 – Accepted for IEEE Xplore (In-Press).
- **Automated Identification of Zika Virus Mosquito Vectors Using Ensemble Deep Learning:** 19-20 Feb 2026
  - S. Mandal, P. Singh, “Automated Identification of Zika Virus Mosquito Vectors Using Ensemble Deep Learning,” 5th International Conference on Innovative Practices in Technology and Management (ICIPTM), Noida NCR, India, 2026 – Accepted for IEEE Xplore (In-Press).

## INTERNSHIP

- **Test-Book** Apr 2023 – May 2023  
*Data Science Intern*
  - Integrated and cleaned multi-source datasets; handled missing values and encoded categorical data.
  - Trained and compared ML models, identifying Gradient Boosting as the top performer with 92% R<sup>2</sup> score.
  - Deployed the model using Streamlit, enabling live forecasting and improving planning efficiency by ~20%.**Tech stacks used:** Python, Scikit Learn, Streamlit, Machine Learning Techniques
- **Corizo** Feb 2023 – Mar 2023  
*Data Science Intern*
  - Processed road images using OpenCV (grayscale, Canny edge detection, Hough Transform).
  - Achieved 87% accuracy in lane detection under diverse conditions, enhancing ADAS systems.**Tech stacks used:** Python, OpenCV, Machine Learning

## PROJECTS

- **Face Authentication Attendance System:** Jan 2026 - Feb 2026
  - Developed an AI/ML-based real-time face recognition attendance system using computer vision and deep learning, implementing anti-spoofing detection and achieving ~99% recognition accuracy for automated attendance tracking.**Tech:** Python, OpenCV, dlib, Streamlit, SQLite, NumPy, Pandas, Computer Vision, Face Recognition, Deep Learning
- **LLM-Based Agentic AI HR Automation System:** Nov 2025 - Dec 2025
  - Implemented an Agentic AI workflow using large language models (FLAN-T5) for resume screening, job description generation, and intelligent HR task automation through dynamic decision routing.**Tech:** Python, Hugging Face Transformers, FLAN-T5, Agentic AI, LLMs, NLP, Automation
- **Bias Correction in N.W.P. Temperature Forecasting Model:** Jan 2025 - Apr 2025
  - Applied LSTM model to correct biases in numerical weather prediction outputs, improving forecast accuracy by 13% (R<sup>2</sup> = 0.9408).**Tech:** Python, TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn
- **Car Price Prediction:** May 2023 - Jul 2023
  - Tuned and implemented regression models, with Extra Trees Regressor achieving 92% accuracy (R<sup>2</sup> = 0.92).
  - Launched a real-time prediction app with Streamlit, improving accessibility and model usability.**Tech:** Python, Streamlit, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn
- **Inventory Management System:** Apr 2023 - May 2023
  - Designed a Tkinter-based inventory system with secure user authentication and SQLite backend, reducing manual tracking time by 40%.**Tech:** Python, Tkinter, SQLite, Pandas, Matplotlib
- **Sales insight through Power BI and ETL:** Sep 2022 - Nov 2022
  - Built automated ETL pipelines and Power BI dashboards to analyze revenue patterns and customer behavior.**Tech:** Power BI, SQL, Excel, ETL-Talend

## CERTIFICATES

- Applied Artificial Intelligence Winter Certification Program - **IBM SkillsBuild / CSRBOX** Dec 2025
- Advanced Learning Algorithms - **Coursera** Apr 2024
- Supervised Machine Learning: Regression and Classification - **Coursera** Apr 2024

- Data Science with Python career program - **Skill Academy /TestBook**
- Data Science Industrial Training - **Corizo**

Jul 2023  
Mar 2023

## ACHIEVEMENTS

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- Secured 3rd place in ML Build-A-Thon Hackathon by LPU

Nov 2024

## EDUCATION

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- **Lovely Professional University** Punjab, India  
*Master of Technology – Machine Learning & Artificial Intelligence; Percentage: 87%* Since August 2024
- **The Neotia University** West Bengal, India  
*Bachelor of Technology – CSE with Specialization in Data Analytics; Percentage: 84%* July 2019 - July 2023
- **Akondabaria SC High School** Malda, West Bengal  
*Intermediate; Percentage: 75%* April 2017 - March 2019
- **Chamagram High School** Malda, West Bengal  
*Matriculation; Percentage: 81.2%* April 2016 - March 2017